METHOD AND APPARATUS

[0001] The present invention relates to a method and apparatus and in particular but not exclusively to a method and apparatus for monitoring applications.

[0002] Users often access different services, such as Internet services. These services may be provided by a service provider. A user will access these services via a user device or a user equipment. The user device will connect to the service provider via network protocols such as TCP/IP.

[0003] Some web browsers use DOM (document object model) or the like to render documents. This document may be a HTML (hypertext mark-up language) page. A DOM API (application programming interface) may be used to modify or look at a web page. The DOM is used by a script to see the browser state and the HTML tags of the web page. The HTML page is rendered in the browser. The browser parses the HTML page. The DOM will then cause the page to be displayed.

[0004] A user may interact with the browser and enter data which is required by the service provider. This data can take any suitable form and may for example be sign in data or the like. This data will need to be sent to the service provider.

[0005] According to an aspect, there is provided a method comprising: causing a first request to be sent; receiving a response to said request comprising a script; causing a second request to be sent comprising parameter information; running said script to determine type information associated with said parameter information; and causing said type information to be sent.

[0006] The causing a second request to be sent may be responsive to a submission event.

[0007] The submission event may be a submission of a form event.

[0008] Running of said script may cause the detection of a dynamic generated form.

[0009] The running of said script may cause mapping of type information to said parameters of a submitted form.

[0010] The parameter information may comprises name value pair information.

[0011] The method may comprise causing at least one of said first request, said second request and said type information to be sent to a gateway or a proxy.

[0012] The method may comprise causing at least one of said first and second requests to be sent to a service provider.

[0013] The method may comprise causing said type information to be sent to a third party.

[0014] At least one of said requests may comprise an HTTP request.

[0015] The response may comprise an HTTP response.

[0016] The method may comprise running said script in a sand box.

[0017] According to another aspect, there may be provided an apparatus configured to carry out any of the above method steps.

[0018] A computer program comprising program code means arranged to perform the method may be provided. The computer program may be stored and/or otherwise embodied by means of a carrier medium.

[0019] According to another aspect, there is provided an apparatus comprising at least one processor and at least one memory including computer code for one or more programs, the at least one memory and the computer code configured, with the at least one processor, to cause the apparatus at least to: cause a first request to be sent; receive a response to said request comprising a script; cause a second request to be sent comprising parameter information; run said script to determine type information associated with said parameter information; and cause said type information to be sent.

[0020] The at least one memory and the computer code may be configured, with the at least one processor, to cause the apparatus to cause a second request to be sent is responsive to a submission event.

[0021] The submission event may be a submission of a form event.

[0022] The at least one memory and the computer code may be configured, with the at least one processor, to cause the detection of a dynamic generated form.

[0023] The at least one memory and the computer code may be configured, with the at least one processor, to cause mapping of type information to said parameters of a submitted form.

[0024] The said parameter information may comprise name value pair information.

[0025] The at least one memory and the computer code may be configured, with the at least one processor, to cause at least one of said first request, said second request and said type information to be sent to a gateway or a proxy.

[0026] The at least one memory and the computer code may be configured, with the at least one processor, to cause at least one of said first and second requests to be sent to a service provider.

[0027] The at least one memory and the computer code may be configured, with the at least one processor, to cause said type information to be sent to a third party.

[0028] At least one of said requests may comprise an HTTP request.

[0029] The response may comprise an HTTP response.

[0030] The at least one memory and the computer code may be configured, with the at least one processor, to cause running of said script in a sand box.

[0031] According to an aspect, there is provided an apparatus comprising: means for causing a first request to be sent; means for receiving a response to said request comprising a script; means for causing a second request to be sent comprising parameter information; means for running said script to determine type information associated with said parameter information; and means for causing said type information to be sent.

[0032] The means for causing said second request to be sent may be responsive to a submission event.

[0033] The submission event may be a submission of a form event.

[0034] The running means may be for running said script to cause the detection of a dynamic generated form.

[0035] The running means may be for running said script to cause mapping of type information to said parameters of a submitted form.

[0036] The parameter information may comprise name value pair information.

[0037] The means for causing said first request to be sent may be for causing said first request to be sent to a gateway or proxy and/or the means for causing said second request to be sent may be for causing said second request to be sent to a gateway or proxy and/or the means for causing the type information to be sent may be for causing the type information to be sent to a gateway or a proxy.

[0038] The means for causing said first request to be sent may be for causing said first request to be sent to a service